

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-20. (canceled)

21. (currently amended) A material for medical or veterinary usage, for the realization of endo-bone implants, for dental implants, or for the realization of bone prostheses, which material is in the form of a molded piecework ready for implantation into living bone tissue, made of 65% to 90% by weight of a polymer biocompatible binder and 10% to 35% by weight calcium phosphate, said material having a surface provided with emerging crystallized calcium phosphate emerging in a form of crystals from the surface, the emerging crystallized calcium phosphate being resorbable after implantation to insure an efficient biocompatibility in terms of biological acceptance.

22. (previously presented) A material according to claim 21, wherein the calcium phosphate enables addition of calcium and of phosphorus, and the calcium phosphate is derived from calcium hydroxyapatite and/or dicalcic or tricalcic phosphate.

23. (previously presented) A material according to claim 21, which comprises a binder in the form of a thermoplastic polymer.

24. (previously presented) A material according to claim 23, which comprises a binder in the form of a thermoplastic polymer or PEEK (polyetheretherketon).

25. (previously presented) A material according to claim 21, which comprises a binder in the form of a natural polymer or cellulose.

26. (previously presented) A material according to claim 21, which comprises a zeolite or oxide compound selected from the group consisting of TiO_2 , SiO_2 , Al_2O_3 and ZrO_2 .

27. (previously presented) A material device according to claim 21, which also comprises complementary component(s) in the form of calcium hydroxyapatite and/or dicalcic or tricalcic phosphate, and is associated with at least one zeolite or an oxide.

28. (currently amended) A method of preparation of a material for medical or veterinary usage, in order to ensure an efficient biocompatibility in terms of biological acceptance of

said material which is in a form of a molded piecework ready for implantation into living bone tissue, comprising in order of performance:

injection molding the piecework from a material made of 65% to 90% in weight of a polymer biocompatible binder and 10% to 35% in weight of calcium phosphate; ~~, the emerging crystallized calcium phosphate being resorbable after implantation to insure an efficient biocompatibility in terms of biological acceptance,~~ wherein said surface treatment comprising:

~~first, several~~ surface pickling and decontamination operations ~~on of~~ the molded piecework, wherein said surface pickling and decontamination operations comprise passing the molded piecework in successive baths subjected to ultrasound in order of performance:

a hydrochloric or sulphuric acid bath,
an acetone bath,
a hydrogen peroxide bath,
a sodium hypochlorite bath, and
a disinfectant product(s),
each of said baths being separated by operations comprising water rinsing or passing in water baths subjected to ultrasound; [[,]] and
a subsequent sterilization operation by autoclave,

wherein said surface treatment is such as the surface of said molded piecework is provided with emerging crystallized calcium phosphate that is resorbable after implantation.

29-35. (canceled)

36. (previously presented) A method according to claim 28, which also comprises subjecting the molded part to a decontamination treatment by means of baths conducting the surface pickling/decontamination treatment, associated with at least one complementary bath of decontaminating product.

37-40. (canceled)

41. (currently amended) A method of preparation of a material for medical or veterinary usage, the material being in a form of a molded piecework ready for implantation into living bone tissue, made of a polymer biocompatible binder and at least one compound for adding calcium and phosphorus, comprising in order of performance:

mixing homogeneously 65% to 90% in weight of a polymer biocompatible binder and 10% to 35% in weight of calcium phosphate;

subjecting the mixture thus obtained to a molding operation;

performing, first, one or several surface pickling and decontamination operations on the molded piecework and, second, a ~~steriliaation~~ sterilization operation by autoclave; and conditioning aseptically said decontaminated piecework, wherein the surface pickling and decontamination operations include passing the molded part in order of performance in successive baths of hydrochloric or sulfuric acid, acetone, hydrogen peroxide, sodium hypochlorite and disinfectant product(s), subjected to ultrasounds, separated by operations consisting in water rinsing or passing in water baths subjected to ultrasounds, such as the surface of said molded piecework is provided with emerging crystallized calcium phosphate that is resorbable after implantation to insure an efficient biocompatibility in terms of biological acceptance.

42. (new) A material according to claim 21, wherein the molded piecework is an injection molded piecework.

43. (new) A method according to claim 41, wherein the molding operation is an injection molding operation.